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16 March 1970

Materiel Test Procedure 10-2-196
General Equipment Test Activity

U. S. ARMY TEST AND EVALUATION COMMAND
COMMODITY ENGINEERING TEST PROCEDURE

POUCH, COLLECTION AND BURIAL, HUMAN REMAINS

1. OBJECTIVE*

This document is to provide test methodology and testing techniques necessary to determine the technical performance and safety characteristics of human remains collections and burial pouches as described in Qualitative Materiel Requirements (QMR's), Small Development Requirements (SDR's), Technical Characteristics (TC's), and to determine the item's suitability for service tests.

2. BACKGROUND

There is a requirement for a lightweight, expandable pouch to be used for the collection, transport, and burial of deceased personnel. The pouch will be used during wartime by combat units and Graves Registration Elements for the initial recovery of remains from the battlefield and for transfer to a collecting point or established cemetery in the theater of operations. The pouch should facilitate the collection of remains in situations where large scale casualties may occur, such as natural disasters, accidents, nuclear or CB strike. Under counter-insurgency conditions, pouches will be used for the recovery of remains by helicopters, and light aircraft. Rapid recovery is essential to preclude the mutilation of the remains by scavenger animals or birds or by guerrillas and military forces of hostile peoples. It is expected that the pouch could be used as a container for several days at or near the site where high casualties are inflicted. The pouch would then be removed as transport and labor is available. Fluids shall be confined within the pouch to prevent soiling or imparting a persistent offensive odor to vehicles and aircraft used to transport deceased. This type of pouch is intended to replace the present pouch which is too heavy and too costly, and to curtail or eliminate the use of blankets, shelter halves, ponchos, or mattress covers which are unsuitable for transport and field burial of remains.

Engineering tests will evaluate the suitability of the pouch materials, carrying handles, fasteners and fabrication techniques to meet the above requirements.

3. REQUIRED EQUIPMENT

- a. Platform Scales.
- b. Scale, accurate to 0.01 pound.
- c. Steel Measuring Tape.
- d. Still Camera with Film and Flashbulbs.
- e. Dry Dessicant or Suitable Sorbent Material.
- f. Mechanical Strength Tester (Tensile Tester).

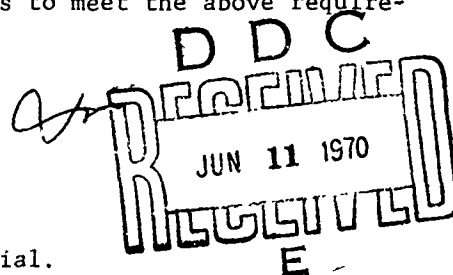
*This MTP is intended to be used as a basic guide in preparing actual test plans for the subject equipment. Specific criteria and test procedures must be determined only after careful appraisal of pertinent QMR's, SDR's, TC's, and any other applicable documents.

STATEMENT #2 UNCLASSIFIED

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g. Weights totaling 300 pounds, or human dummy weighing 300 pounds, with the following anthropometric characteristics:

Height - 76"
Shoulder Breadth - 21"
Chest Depth - 10"

- h. Environmental Test Chambers, (155°F, -65°F, 100% RH).
- i. CB and Environmental Protective Gloves.
- j. DANC Decontamination Solution.
- k. Suspension Apparatus.
- l. 20% Aqueous Ammonia Solution.
- m. Plastic Test Facilities and Equipment, as required.
- n. Textile Test Facilities and Equipment, as required.
- o. Accelerated Footwear Facility, or equivalent abrasion test course.

4. REFERENCES

- A. Small Development Requirement SDR 149g (1), CDOG, Pouch, Collection and Burial, Human Remains.
- B. Military Specifications MIL-P-10808, Pouch, Human Remains.
- C. FED-STD-191b, Textile Test Methods.
- D. FED-STD-406, Plastics, Methods of Testing.
- E. Military Specification MIL-D-3716, Dessicants (Activated) for Dynamic Dehumidification.
- F. MIL-C-43006, Cloth, Laminated, Vinyl-Nylon, High Strength Flexible.
- G. AR 70-38, Research, Development Test and Evaluation of Materiel for Extreme Climatic Conditions.
- H. USATECOM Regulation 385-6, Verification of Safety of Materiel During Testing.
- I. USATECOM Regulation 700-1, Value Engineering.
- J. USATECOM Regulation 705-4, Equipment Performance Report.
- K. Technical Manual TM 3-220, Chemical, Biological, and Radiological (CBR) Decontamination.
- L. MTP 10-2-500, Physical Characteristics.
- M. MTP 10-2-501, Operator Training and Familiarization.
- N. MTP 10-2-505, Human Factors Evaluation.
- O. MTP 10-2-508, Safety.

5. SCOPE

5.1 SUMMARY

This Materiel Test Procedure describes the following tests to be performed on human remains collection and burial pouches:

- a. Preparation for Test - A determination of the conditions of the test item upon arrival, its physical characteristics, and operator training and familiarization.
- b. Materiel Characteristics - An evaluation to determine the integrity of the material of which the test item has been fabricated.
- c. Leakage and Odor Retention - An evaluation to determine the ability of the test item to retain fluids and to prevent the escape of offensive odors and the ability of the interior pocket(s) to resist moisture and odor penetration. This test also ensures that the test item can carry its rated load.

d. Strength Tests - An evaluation to determine the breaking strength of the carrying handles and ability of the pouch to resist abrasion when subjected to minor dragging, over various surfaces, of packaged remains.

e. Closure Wear - An evaluation of the ability of the pouch to retain its watertight characteristics after repeated closure operation.

f. Environmental Storage - An evaluation of the ability of the packaged test item to function as intended after storage in extremes of temperature and humidity.

g. Decontamination Resistance - An evaluation of the ability of the test item to withstand CBR decontamination

h. Safety - An evaluation to determine any test item hazards.

i. Human Factors Evaluation - An evaluation of the man-item relationship to include adequacy of closure and carrying handles, accessibility to interior pocket, anthropometric considerations and suitability of packaging.

j. Value Analysis - An evaluation to determine whether the test item has unnecessary, costly, or "nice-to-have" features as stated in USATECOM Regulation 700-1.

5.2 LIMITATIONS

None

6. PROCEDURES

6.1 PREPARATION FOR TEST

6.1.1 Initial Inspection

Upon receipt of the test item at the test site, perform the following:

a. Visually inspect the test item packages and record the following:

- 1) Evidence of package deterioration or damage.
- 2) Identification markings, including:
 - a) Name of contractor
 - b) Date of manufacture
 - c) Other markings pertaining to the test item

b. Photograph the test item(s) package(s) to identify their condition.

c. Weigh and measure the test item(s) package(s) and record the following:

- 1) Contents
- 2) Weight
- 3) Length, width, height
- 4) Cubage

d. Remove the test item from its shipping package and record the following:

- 1) Ease of unpacking the test item.

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- 2) Time required for unpacking.
- 3) Comments regarding the method and the material used for packing the test item.
- 4) Number of test items in a package.

e. Examine the test item and record the following:

1) Any evidence of defects in:

- a) Manufacturing
- b) Material
- c) Workmanship

NOTE: Make use of photographs, narratives and diagrams to indicate the condition of the test items and its accessories.

2) Presence, location, and quality of markings, when applicable, including:

- a) Identification, name and serial number
- b) Head end of test item marked
- c) Marking legibility

3) Whether test item material is opaque and the color is compatible with standard camouflage practices.

f. Photograph the test item(s).

6.1.2 Physical Characteristics

Determine the physical characteristics of the test item as described in the applicable sections of MTP 10-2-500 and the following:

a. Weigh and measure the test item and record the following:

- 1) Weight
- 2) Length
- 3) Width
- 4) Thickness of material
- 5) Dimensions of the test item opening including:
 - a) Length
 - b) Maximum width
- 6) Dimensions of the carrying handles

6.1.3 Operator Training and Familiarization

Orient test personnel as described in the applicable portions of MTP 10-2-501 and the following:

- a. Test personnel shall receive orientation in the following areas:
 - 1) Purpose of test and test methods
 - 2) Capabilities and use of pouch
- b. Note and record the adequacy of draft manuals for training purposes.
- c. Record any difficulties encountered.

6.2 TEST CONDUCT

NOTE: Report all equipment failures by preparing an Equipment Performance Report (EPR) in accordance with USATECOM Regulation 705-4.

6.2.1 Material Characteristics

Determine that the test item material meets the requirements of MIL-C-43006, for Type III, Class I material by subjecting the test item to the following, as applicable:

- a. Test procedures as described in FED-STD-191b, for fabric materials including:

- 1) Abrasion Resistance of Cloth, Rotary Platform, Double-head (Taber) Method - Method 5306.
- 2) Adhesion of Coating; Solvent Method - Method 5970-2.
- 3) Temperature High, Effect on Cloth Blocking - Method 5872.
- 4) Strength and Elongation, Breaking of Woven Cloth, Cut Strip Method - Method 102.2.
- 5) Strength of Cloth, Tearing, Pendulum Method - Method 5132.2.
- 6) Weathering Resistance of Cloth - Accelerated Weathering Method (National Weathering Unit) - Method 5804.1.
- 7) Strength of Cloth, Ball Bursting Method - Method 5120.1.
- 8) Water Resistance of Cloth; Water Permeability, Hydrostatic Pressure Method - Method 5516 - Except that the hydrostatic pressure head shall be 20 inches.

- b. Test procedures as described in Federal Test Method Standard 406, for plastic materials, including:

- 1) Abrasion Wear (Loss in Weight) - Method 1091.
- 2) Accelerated Weathering Test; Carbon Arc Method Fitters - Method 6022.
- 3) Blocking - Method 1131.
- 4) Tensile Properties of Plastics - Method 1011.
- 5) Effect of Hot Hydrocarbons on Surface Stability - Method 6062.
- 6) Resistance of Plastics to Chemical Reagents - Method 7011 - including DANC decontaminating solution as one of the reagents.
- 7) Indication Hardness of Non-Rigid Plastics by Means of a Durometer - Method 1082.

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- 8) Water Absorption of Plastics - Method 7031.
- 9) Water Vapor Permeability - Method 7032.

c. Miscellaneous fabric tests including:

- 1) Immerse a sample of fabric in hot petrolatum as specified in Method 6062 of Federal Test Method Standard 406. After immersion, remove the excess liquid, cool the sample and repeat the Break Strength Test, step a 4.
- 2) Immerse a sample of fabric in the chemical reagents specified in Method 7011 of Federal Test Method Standard 406. After immersion, remove the excess liquid and repeat the Break Strength Test, step a 4.
- 3) Immerse a sample of fabric in water and boil for five minutes, three separate times, with the sample remaining at test conditions for one hour between boiling cycles. Remove the sample and cool for one hour. Repeat the Adhesion of Coating Test, step a 2.

6.2.2 Leakage Evaluation and Odor Retention

a. Fill the test item interior pocket(s) with a weighed amount of dry desiccant (per MIL-D-3716) and seal the pocket(s).

NOTE: Another suitable dry sorbent material may be used. Silica gel should not be used however.

b. Record the weight of the desiccant material.

c. Fill the test item main pouch with 20% aqueous ammonia solution (approximately 300 pounds at $85 \pm 5^\circ\text{F}$).

d. Suspend the test item from its carrying handles with the closure side up for a minimum of 12 hours.

e. Record the following at the start of the suspension period:

- 1) Time of test start
- 2) Any evidence of fluid leakage from the test item

f. Record the following at one-hour intervals during the conduct of the test until completion, as applicable:

- 1) Any evidence of fluid leakage
- 2) Any presence of ammonia odor on the test item exterior
- 3) Any evidence of separation or tearing at:

- a) Seams
- b) Carrying handles
- c) Closure fastener
- d) Body of the test item

g. At the conclusion of the suspension period remove the solution from the test item and record the duration of the suspension period.

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- h. Remove the sorbent material from the interior pocket(s) and record any odor of ammonia in the sorbent material.
- i. Measure and record the weight of the sorbent material.

6.2.3 Strength Tests

6.2.3.1 Carrying Handle Break Strength

- a. Mount the test item in a suitable tensile tester with the body of the pouch in the fixed jaw and the carrying handle in the movable jaw.
- b. Adjust the tester so that the pulling clamp will have a speed of 12 ± 0.5 inches/minute.
- c. Apply tension until breaking occurs and record the load required to break the handle.
- d. Repeat steps a through c for each carrying handle.

6.2.3.2 Abrasion Resistance

- a. Load a minimum of 6 pouches with one of the following:
 - 1) A human dummy weighing 300 lbs.
 - 2) Weights totaling 300 lbs. distributed similar to a human body's weight distribution.
- b. Drag a loaded pouch 10 feet over each of the following surfaces:
 - 1) Ground
 - 2) Sand
 - 3) Mud
 - 4) Gravel
 - 5) Smooth Concrete
 - 6) Rough Concrete
- c. After dragging each pouch over the surfaces, inspect the pouch for cuts, tears, abraded areas, punctures, and any other damages. Repeat the leakage evaluation (6.2.2).

6.2.4 Closure Wear

- a. Open and close the test item closure fastener a minimum of 10 times.
- b. Repeat the leakage evaluation of paragraph 6.2.2.
- c. Repeat step a and b and record any evidence of damage or deterioration due to the repeated openings and closings.

6.2.5 Environmental Storage

6.2.5.1 Hot-Dry Conditions

- a. Store a minimum of four test items packed in their shipping containers under the following conditions for a minimum of 48 hours in a suitable

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test chamber:

- 1) Temperature of 155°F
- 2) Solar radiation (simulated) of 360 BTU/ft²-hr.
- 3) Relative Humidity of 5 percent

b. At the completion of the storage period remove the test items from the chamber and perform the following:

- 1) Inspect the test items, immediately, and record damage or deterioration due to exposure, including, as applicable:
 - a) Fabric warping
 - b) Fabric blocking
 - c) Separation of coating
 - d) Delaminations
 - e) Cracking of material
 - f) Surface tackiness

c. Subject each of the test items to the leakage evaluation procedure of paragraph 6.2.2.

d. Subject each of the test items to the carrying handle break strength test of paragraph 6.2.3.

6.2.5.2 Warm-Wet Conditions

Repeat the procedures of paragraph 6.2.5.1 with test item storage under the following conditions:

- a. Temperature of 95°F
- b. Solar radiation (simulated) of 310 BTU/ft²-hr.
- c. Relative humidity of 100 percent

6.2.5.3 Cold Conditions

Repeat the procedures of paragraph 6.2.5.1 with test item storage at a temperature of -65°F with no solar radiation simulation.

6.2.6 Decontamination Resistance

a. Subject the test item to the decontamination procedure of thorough washing with hot soapy water.

b. After completion of the decontamination subject the test item to the leakage evaluation of paragraph 6.2.2.

6.2.7 Safety

Subject the test item to the applicable procedures of MTP 10-2-508 and the following:

- a. Throughout the duration of testing observe and record any condition

which might present a safety hazard.

b. Record the following, as applicable:

- 1) Cause(s) of the hazard
- 2) Steps taken to alleviate the hazard

6.2.8 Human Factors Evaluation

Evaluate the effectiveness of the man-item relationship, during the duration of testing, as described in the applicable section of MTP 10-2-505 and the following:

a. Observe and record the suitability of the test item carrying handles with respect to:

- 1) Size (adequate for 95th percentile hand sizes)
- 2) Location on the test item
- 3) Ease of carrying the test item

b. Observe and record whether the size of the test item and its opening are adequate to accommodate the height of personnel of the 95th percentile.

c. Observe and record whether the closure location and construction minimize the possibility of snagging or catching remains.

d. Observe and record the suitability of the closure fastener and comment on the ease and speed of operating the fastener, including operation with CB and environmental protective gloves.

e. Record any difficulties in accessibility to or use of the interior pocket(s).

f. Record the suitability of the test item package(s) with respect to:

- 1) Ease of carrying
- 2) Speed of unpacking
- 3) Adequacy of instructions

g. Record the ability of the contents to be identified without opening the test item.

6.2.9 Value Analysis

a. Throughout the test evaluate the test item with regard to unnecessary, costly, or nice-to-have features.

b. Observe and record test item features which could be eliminated without compromising the performance of the item.

6.3 TEST DATA

6.3.1 Preparation for Test

6.3.1.1 Initial Inspection

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Record the following:

a. For the test item package(s):

- 1) Evidence of package deterioration or damage
- 2) Identification markings, including:
 - a) Name of contractor
 - b) Date of manufacture
 - c) Other markings pertaining to the test item
- 3) Contents
- 4) Weight in pounds
- 5) Length in inches
- 6) Width in inches
- 7) Height in inches
- 8) Cubage in cubic feet

b. For the test item(s):

- 1) Ease of unpacking.
- 2) Time required for unpacking in minutes.
- 3) Comments regarding the method and material used for packing.
- 4) Number of test items in a package.
- 5) Any evidence of defeats in:
 - a) Manufacturing
 - b) Materials
 - c) Workmanship
- 6) Presence, locations and quality of markings, when applicable, including:
 - a) Identification, name and serial number
 - b) Head end of test item marked
 - c) Marking legibility
- 7) Whether test item material is opaque and the color is compatible with standard camouflage practices.

c. Retain and identify all photographs.

6.3.1.2 Physical Characteristics

Record data, collected as described in the applicable section of MTP 10-2-500 and the following:

- a. Weight, in pounds
- b. Length, in inches
- c. Width, in inches
- d. Thickness of material, in inches.

e. Dimensions of the test item opening including:

- 1) Length, in inches
- 2) Maximum width, in inches

f. Dimensions of the carrying handles, in inches.

6.3.1.3. Operative Training and Familiarization

Record data collected as described in the applicable section of MTP 10-2-501 and the following:

- a. Adequacy of draft manuals for training purpose
- b. Any difficulties encountered

6.3.2 Test Conduct

6.3.2.1 Material Characteristics

Record data, collected as described in the applicable test procedure to ascertain whether the test item material meets the requirements of MIL-D-43006 including the following:

a. For fabric materials from FED-STD-191B:

- 1) Abrasion Resistance of Cloth - Method 5306.
- 2) Adhesion of Coating; Solvent Method - Method 5970.2.
- 3) Temperature High, Effect on Cloth Blocking - Method 5872.
- 4) Strength and Elongation, Breaking of Woven Cloth, Cut-Strip Method - Method 5102.2.
- 5) Strength of Cloth, Tearing, Pendulum Method - Method 5132.2.
- 6) Weathering Resistance of Cloth, Accelerated Weathering Method - Method 5804.1
- 7) Strength of Cloth, Ball Bursting Method - Method 5120.1
- 8) Water Resistance of Cloth, Water Permeability Hydrostatic Pressure Method - Method 5516 with hydrostatic pressure head of 20 inches only.

b. For plastic materials from Federal Test Method Standard 406:

- 1) Abrasion Wear (Loss in Weight) - Method 1091
- 2) Accelerated Weathering Test - Method 6022
- 3) Blocking - Method 1131
- 4) Tensile Properties of Plastics - Method 1011
- 5) Effect of Hot Hydrocarbons on Surface Stability - Method 6062
- 6) Resistance of Plastics of Chemical Reagents - Method 7011 - including DANC decontaminating solution as one of the reagents.
- 7) Indentation Hardness of Non-Rigid Plastics by Means of a Durometer - Method 1082.
- 8) Water Absorption of Plastics - Method 7031.
- 9) Water Vapor Permeability - Method 7032.

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c. Miscellaneous fabric tests, including:

- 1) Hot petrolatum immersion as per Method 6062 of Federal Test Method Standard 506 followed by cooling and the Break Strength Test of step a, 4.
- 2) Chemical reagent immersion as per Method 7011 of Federal Test Method Standard 406 followed by the Break Strength Test of step a, 4.
- 3) Triple immersion of fabric sample for five minute periods in boiling water with one-hour intervals between boiling cycles, followed by a cooling period and the Adhesion of Coating Test of step a, 2.

6.3.2.2 Leakage Evaluation and Odor Retention

Record the following:

a. Nomenclature of sorbent material used to fill the test item interior pocket(s).

b. Weight of sorbent material, in pounds.

c. Weight of 20% aqueous ammonia solution used to fill the test item main pouch, in pounds.

d. At the start of the suspension period:

- 1) Time of test start in hours
- 2) Any evidence of fluid leakage from the test item

e. At one-hour intervals during the conduct of the test until completion, as applicable:

- 1) Any evidence of fluid leakage
- 2) Any presence of ammonia odor on the test item exterior
- 3) Any evidence of separation or tearing at:

- a) Seams
- b) Carrying handles
- c) Closure fastener
- d) Body of the test item

f. At the conclusion of the suspension period:

- 1) Duration of suspension in hours and minutes.
- 2) Any odor of ammonia in the sorbent material after its removal from the interior pocket(s).
- 3) Weight of the sorbent material in pounds.

6.3.2.3 Strength Tests

6.3.2.3.1 Carrying Handle Break Strength -

Record the load required to break each handle, in pounds.

6.3.2.3.2 Abrasion Resistance -

Record the following for each test item:

- a. Type of load (dummy, weights)
- b. Damage incurred as a result of the test including:
 - 1) Cuts
 - 2) Tears
 - 3) Abraded areas
 - 4) Punctures
 - 5) Any other damages
- c. Leakage evaluation data, collected as described in paragraph 6.2.2

6.3.2.4 Closure Wear

- a. Record leakage evaluation data collected as described in paragraph 6.2.1 after each series of closure exercises.
- b. Record the number of openings and closings made in each series of exercises.

6.3.2.5 Environmental Storage

- a. Record the following for each storage environment as applicable:
 - 1) Overall storage condition (hot-dry, warm-wet, cold)
 - 2) Storage temperature in °F
 - 3) Solar radiation (simulated) in BTU/ft²-hr
 - 4) Relative humidity, in percent
- b. Record the following at the completion of each storage period:
 - 1) Duration of test item storage, in hours
 - 2) Test item damage or deterioration due to storage including as applicable:
 - a) Fabric warping
 - b) Fabric blocking
 - c) Separation of coating
 - d) Delaminations
 - e) Cracking of material
 - f) Surface tackiness
- c. Record leakage evaluation data collected as described in paragraph 6.2.2 for each test item.
- d. Record carrying handle break strength data, collected as described in paragraph 6.2.3.1, for each test item.

6.3.2.6 Decontamination Resistance

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After washing the test item thoroughly with hot soapy water record leakage evaluation data, collected as described in paragraph 6.2.2.

6.3.2.7 Safety

Record data, collected as described in the applicable sections of MTP 10-2-508 and the following:

- a. Any condition which might present a safety hazard, during the period of testing.
- b. For each safety hazard, as applicable:
 - 1) Cause(s) of the hazard
 - 2) Steps taken to alleviate the hazard

6.3.2.8 Human Factors Evaluation

Record data, collected as described in the applicable sections of MTP 10-2-505 and the following:

- a. Suitability of the test item carrying handles with respect to:
 - 1) Size (adequate for 95th percentile hand sizes)
 - 2) Location on the test item
 - 3) Ease of carrying the test item
- b. Adequacy of the size of the test item and its opening to accommodate the height of personnel of the 95th percentile.
- c. Suitability of the test item, closure location and construction to minimize the possibilities of snagging or catching the remains.
- d. Suitability of the closure fastener and comments on the ease and speed of operating the fastener, including, operation with CB and environmental protective gloves.
- e. Any difficulties in accessibility to or use of the interior pocket(s).
- f. Suitability of the test item package(s) with respect to:
 - 1) Ease of carrying
 - 2) Speed of unpacking
 - 3) Adequacy of instructions
- g. Ability of the contents to be identified without opening the test item.

6.3.2.9 Value Analysis

Record the following throughout testing:

- a. Unnecessary features
- b. Costly features
- c. Nice-to-have features

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d. Test item features which could be eliminated without compromising its performance.

6.4 DATA REDUCTION AND PRESENTATION

Data shall be summarized and analyzed statistically to reveal significant discrepancies between specified and observed performance, and presented in chart, tabular, or graphic form as appropriate.

Compare the data from leakage evaluation test conducted after closure reliability, and environmental storage tests are conducted with the original leakage evaluation data, and note any degradation in the test item's ability to retain fluids and odors.

Compare the carrying handle break strength data from test conducted after environmental storage tests with the original break strength data and note any degradation of carrying handle strength due to storage in extreme environments.

A Safety Release Recommendation shall be submitted in accordance with USATECOM Regulation 385-6, based on the data collected related to safety.

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11. SUPPLEMENTARY NOTES -----	12. SPONSORING MILITARY ACTIVITY Headquarters US Army Test and Evaluation Command Aberdeen Proving Ground, Maryland 21005	
13. ABSTRACT This Engineering Test Procedure describes test methods and techniques for evalu- ating the technical performance and characteristics of Pouches (for Human Remains Collection and Burial), and for determining their suitability to be subjected to test for service use in the US Army. The evaluation is related to criteria ex- pressed in applicable Qualitative Materiel Requirements (QMR), Small Development Requirements (SDR), Technical Characteristics (TC), or other appropriate design requirements and specifications.		

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